

ABSTRACT

The invention relates to a multilayered film comprising at least one upper layer a), a middle layer b) made of (meth)acrylate copolymer, and a supporting layer c) made of polycarbonate. Upper layer a) contains a light-stability agent and is made of a (meth)acrylate copolymer that, together with the polycarbonate of supporting layer c), can form partially compatible mixtures. A test piece, which is made from a mixture consisting of 20 % by weight of (meth)acrylate copolymer and 80 % by weight of polycarbonate, has a breaking elongation (ISO 527-2) of at least 75 % at 23 °C. The middle layer b) contains a colorant and, optionally, a light-stability agent and is made from an identical or different (meth)acrylate copolymer that, together with the polycarbonate of supporting layer c), can form partially compatible mixtures. A test piece, which is made from a mixture consisting of 20 % by weight of (meth)acrylate copolymer and 80 % by weight of polycarbonate, has a breaking elongation (ISO 527-2) of at least 75 % at 23 °C, and the supporting layer c) is made of polycarbonate that, optionally up to 30 % by weight of the material of the layers, can contain a) and b). The invention also relates to the production and uses of the multilayered film and to partially compatible polymer mixtures consisting of (meth)acrylate copolymer and polycarbonate.